Changes in Intraocular Pressure and Anterior Chamber Depth after Phacoemulsification in NonGlaucomatous Patients

Mona Abdallah, Omar M Ali, Abd El - Nasser A. Mohammad and Wael Soliman

Abstract:

Aims: To evaluate changes in intraocular pressure (IOP) and anterior chamber depth (ACD) after uneventful phacoemulsification with intraocular lens (IOL) implantation. Study Design: Prospective interventional comparative study. Place and Duration of Study: Department of Ophthalmology, Assuit University Hospital, Assuit, Egypt between September 2016 and October 2017. Methodology: 100 Patients with visually significant cataract (39 males (39%) and 61 females (61%)). All patients underwent uneventful phacoemulsification. Intraocular pressure and ACD were measured preoperatively by using Goldmann applanation tonometer and Ultrasonography respectively, and at 1 week, 1 month, and 3 months postoperatively. Results: The postoperative ACD was higher than the preoperative value by 0.26± 0.06 mm at 1 week, 0.45±0.06 mm at 1 month, and 0.59±0.08 mm at 3 months postoperatively (P=.000).

Keywords:

Cataract; phacoemulsification; intraocular pressure; anterior chamber depth.

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